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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No: CTCE/BBMP/W.No.03/KC/CEMENT/2013-14

Date: 13.02.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. K. Channakeshavamurthy,** Contractor, Bangalore.
NAME OF THE WORK	:	Providing of BS slab drain at Ambha bhavani temple road from Sambram college to Subbash Chandra Bose road in Attur, Ward No.03, BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/YNSD/466/2013-14 Dated: 10.02.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	485 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.50 %	-

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬ.ಬ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೧೮

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.03/KC/SAND/2013-14 : 13.02.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.

Agency : **Mr. K. Channakeshavamurthy,** Contractor, Bangalore.

Name of Work : Providing of BS slab drain at Ambha bhavani temple road from Sambram college to Subbash Chandra Bose road in Attur, Ward No.03, BBMP, Bangalore.

Reference : BBMP/AEE/YNSD/466/2013-14 Dated: 10.02.2014

Date of Testing : 13.02.2014

Material : Sand

Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	98	4.90	4.90	95.1	90-100
2.36	199	9.95	14.85	85.2	75-100
1.18	350	17.50	32.35	67.7	55-90
600 Micron	530	26.50	58.85	41.2	35-59
300 Micron	494	24.70	83.55	16.5	8-30
150 Micron	252	12.60	96.15	3.9	

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.03/KC/AGG/2013-14 : 13.02.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.

Agency : **Mr. K. Channakeshavamurthy,** Contractor, Bangalore.

Name of Work : Providing of BS slab drain at Ambha bhavani temple road from Sambram college to Subbash Chandra Bose road in Attur, Ward No.03, BBMP, Bangalore.

Reference : BBMP/AEE/YNSD/466/2013-14 Dated: 10.02.2014

Date of Testing : 13.02.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	990	3.96	3.96	96.04	95-100
20	16240	64.96	68.92	31.08	30-70
10	4985	19.94	88.86	11.14	10-35
4.75	2470	9.88	98.74	1.26	

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.03/KC/STEEL/2013-14 17.03.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency	:	**Mr. K. Channakeshavamurthy,** Contractor, Bangalore.
Name of the work	:	Providing of BS slab drain at Ambha bhavani temple road from Sambram college to Subhash Chandra Bose road in Attur, Ward No.03, BBMP, Bangalore.
Reference	:	BBMP/AEE/YNSD/466/2013-14 Dated: 10.02.2014
Date of Test	:	17.03.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	548	13.05	O.K	O.K

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No: CTCE/BBMP/W.No.03/KC/STEEL/2013-14 17.03.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency	:	**Mr. K. Channakeshavamurthy,** Contractor, Bangalore.
Name of the work	:	Providing of BS slab drain at Ambha bhavani temple road from Sambram college to Subbash Chandra Bose road in Attur, Ward No.03, BBMP, Bangalore.
Reference	:	BBMP/AEE/YNSD/466/2013-14 Dated: 10.02.2014
Date of Test	:	17.03.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	12	0.89	515	550	13.35	O.K	O.K

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Job No.: CTCE/BBMP/W.No.03/KC/CUBE/2013-14

24.04.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency	: **Mr. K. Channakeshavamurthy,** Contractor, Bangalore.
Name of the work	: Providing of BS slab drain at Ambha bhavani temple road from Sambram college to Subbash Chandra Bose road in Attur, Ward No.03, BBMP, Bangalore.
Reference	: BBMP/AEE/YNSD/466/2013-14 Dated: 10.02.2014
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.03.2014	24.04.2014	8.428	489.6	21.76
2	27.03.2014	24.04.2014	8.386	483.5	21.49
3	27.03.2014	24.04.2014	8.297	479.2	21.30

JE 1&3

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